

AMENDMENTS TO THE ABSTRACT

Please cancel the previous version of the Abstract and replace it with the Abstract attached herewith as page 4.

ABSTRACT

A band stop filter comprises a transmission line with center and outer conductors, and coaxial resonators. The outer conductor forming a unitary conductive housing with an inner space divided by conductive partition walls into resonator cavities. Each of the resonator cavities contains at least one of the coaxial resonators, wherein each of the coaxial resonators separately has an electromagnetic coupling to the transmission line. The coupling arranged by a coupling element to form an attenuation peak in the a response curve of the filter, where the natural frequencies of the coaxial resonators differ from each other to shape the response curve of the filter. The transmission conductor is located inside the housing, running through openings in the partition walls across all the resonator cavities. The housing is the outer conductor of the transmission line, and a portion of the transmission conductor in a resonator cavity is the coupling element.